

Technical data

Highly flexible - twisted-pair - full shielding

Preferred application

Pulse and data transfer connection cables for electronic systems, control and regulation systems and as interconnection cables for paging and intercom systems.

Special features

The twisted-pair cores provide increased cross-talk attenuation.
The full shielding prevents interference and external influences.

Construction data

Conductors of fine-wire plain copper strands, 256 x 0.05 mm = 0.50 mm²

Core insulation

PVC, coloured, second colour as abrasion-resistant coloured rings.
Ø of the copper strands in each core = 1.0 mm.
Insulation wall thickness = 0.4 mm.
Ø of the insulated core = 1.8 mm.
2 cores are **tightly** twisted to a pair, twist length of approx. 35 mm, i.e. approx. 28 twists per metre.
Colour and twisting sequences on page 5.
The collection of cores is wrapped with a layer of transparent polyester foil (15 x 0.019°mm).
The full shielding lies on top of this foil; the braiding of the tinned copper wires provides a visual coverage of approx. 85%.
The shield is covered by a PVC jacket that is largely resistant to splashes of common machine oils.
This jacket is light grey as per RAL 7032.

Electrical and thermal properties at 20 °C

Conductor resistance max. 39 Ω/km
Core insulation resistance ≥20 M Ω x km
Capacity at 1°kHz (core/core, shield earthed) 110 pF/m ± 20%
Operating voltage (VDE 0812) max. 500 V
Test voltage: core/core > 2000 V
Core/shield > 1500 V
Current rating (ambient temp. 25 °C) max. 2.6 A
Characteristic impedance (at a frequency above 100 kHz) 75 to 105 Ω
Inductance (measured at 800 Hz) core/core approx. 0.7 mH/km
core/shield approx. 0.5 mH/km
Capacitive coupling (measured at 800 Hz) approx. 200 pF/100 m
Temperature range -10 °C to +70 °C (installation and operation)
-30°C bis +80°C (transport and storage)

Mechanical properties: Once-only bending radius 8 X outer diameter
Repeated bending radius 15 X outer diameter

Colour sequence on page 5

The core pairs are counted sequentially through all layers, from the outside layer to the inside layers and all layers are counted in the same way.

Net prices including copper

Weight kg / 100 m	Total Ø approx. mm	Usually available ex-stock	Sample quantities under 100 metres Price for 1 m	in EUR per 100 m on collection from			Ordering information
				100 m	500 m	3000 m	
14.0	10.5	4 pairs = 8 cores	8.80	584.00	438.00	292.00	4 x 2 - 52
22.2	12.7	6 pairs = 12 cores	12.50	832.00	624.00	416.00	6 x 2 - 52
25.3	13.0	8 pairs = 16 cores	6.00	400.00	300.00	-	8 x 2 - 52*

Normal stock unit: 100-m ring. Short sample (20 cm) free of charge. No copper surcharges



*Items to be sold off

You can contact us **at any time** during our business hours.
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